

# Curriculum Vitae of Tammy Walton

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## **Education**

Hampton University Physics Ph.D. August 2014

University of Tennessee Physics B.S. May 2006

## **Employment**

2014-present Research Associate, Muon g-2, Fermi National Accelerator Laboratory

2011-2012 Teaching Assistant in the Department of Physics at Hampton University

2006 Physics Tutor at the University of Tennessee

## **Research Roles**

Muon g-2 Tracking Software Coordinator

Muon g-2 Production Co-Coordinator

## **Publications**

C.M. Marshall et al., “Measurement of K<sup>+</sup> production in charged-current νμ interactions” Phys. Rev. D 94, 012002 (2016)

J. Park et al., “Measurement of Neutrino Flux using Neutrino-Electron Elastic Scattering”, Phys. Rev. D 93, 112007 (2016)

J. Mousseau et al., “Measurement of Partonic Nuclear Effects in Deep-Inelastic Neutrino Scattering using MINERvA”, Phys. Rev. D 93, 071101 (2016).

P.A. Rodrigues et al., “Identification of nuclear effects in neutrino-carbon interactions at low three-momentum transfer”, Phys. Rev. Lett. 116, 071802 (2016).

J. Wolcott et al., “Measurement of electron neutrino quasielastic and quasielastic-like scattering on hydrocarbon at average E<sub>ν</sub> of 3.6 GeV”, Phys. Rev. Lett 116, 081802 (2016).

T. Le et al, “Single neutral pion production by charged-current anti-ν<sub>μ</sub> interactions on hydrocarbon at E<sub>ν</sub> average of 3.6 GeV”, Phys.Lett. B749 130

T. Walton et al., “Measurement of muon plus proton final states in ν<sub>μ</sub> Interactions on Hydrocarbon at average E<sub>ν</sub> of 4.2 GeV”, Phys. Rev. D. 91 , 071301 (2015).

L. Aliaga et al., “MINERvA neutrino detector response measured with test beam data”, Nucl. Inst. Meth. A. 789 , 28-42 (2015).

A. Higuera et al., “Measurement of Coherent Production π<sup>±</sup> in Neutrino and Anti-Neutrino Beams on Carbon from E<sub>ν</sub> of 1.5-20 GeV”, Phys. Rev. Lett. 112 , 261802 (2014).

B.G. Tice et al., “Measurement of ratio of ν<sub>μ</sub> charged-current cross sections on C, Fe, and Pb to CH at neutrino energies 2-20 GeV”, Phys. Rev. Lett. 112 , 231801 (2014).

G.A. Fiorentini et al., “Measurement of the Muon Neutrino Quasi-Elastic Scattering on a Hydrocarbon Target at E<sub>ν</sub> ~ 3.5 GeV”, Phys. Rev. Lett. 111 , 022502 (2013).

L. Fields et al., “Measurement of the Muon Antineutrino Quasi-Elastic Scattering on a Hydrocarbon Target at E<sub>ν</sub> ~ 3.5 GeV”, Phys. Rev. Lett. 111 , 022501 (2013).

L. Aliaga et al., “Design, Calibration, and Performance of the MINERvA

Detector”, Nucl. Inst. Meth. A 743, 130 (2014).

D.D. Stancil et al., “Demonstration of Communication using Neutrinos”, Mod. Phys. Lett. A 27, 1250077 (2012).

G.N.Perdue et al., “The MINERvA data acquisition system and infrastructure”, Nucl. Inst. Meth. A 179, 694 (2012).

N. Tagg et al., “Arachne - A web-based event viewer for MINERvA”, Nucl. Inst. Meth. A 44, 676 (2012). Conference Talks

## **Public Lectures**

“Dancing with Neutrinos” University of Rochester Charles Augustus Thompson Lecture Series, Rochester, NY, February 25, 2013.

## **Seminars**

“Recent Results of Quasi-Elastic Scattering at MINERvA” MIT Lunchtime Seminar, Cambridge, MA, October 14, 2014.

“Exclusive Muon and Proton Quasielastic-like Scattering at MINERvA” Fermilab Joint Experimental- Theoretical Physics Seminar, Batavia, IL May 9, 2014.

## **Conference Talks**

“Particle Identification in MINERvA” April Meeting of the American Physical Society, Washington,D.C., February 13-17 2010.

“Neutrino Exclusive Charged Current Quasi-Elastic Scattering in MINERvA” April Meeting of the American Physical Society, Atlanta, GA, March 31 - April 3, 2012.

“Neutrino Exclusive Charged Current Quasi-Elastic Scattering in MINERvA” Fall Meeting of the American Physical Society, Division of Nuclear Physics, Newport

Beach, CA, October 24-27 2012.

“Muon Neutrino Charged Current Quasi-Elastic Scattering in the MINERvA Experiment” Fermilab New Perspectives Meeting, Batavia, IL June 10-11, 2013.

“Neutrino-Nucleus Scattering at MINERvA” Elba XIII Workshop, Elba, Italy, June 23-24 2014.

## **Posters**

“Neutrino Event Reconstruction in MINERvA Experiment” Gordon Photonuclear Reactions, Tilton, NH, August 1-6, 2010.